



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Biopesticides and Pollution Prevention Division (7511P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

90515-2

Date of Issuance:

4/28/2016

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Synergy Shield Verbenone

Name and Address of Registrant (include ZIP Code):

Synergy Semiochemical Corporation  
 7061 MERRITT AVE  
 BURNABY, BRITISH COLUMBIA, V5J 4R7, CANADA

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.

Signature of Approving Official:

Andrew Bryceland, Team Leader  
 Biochemical Pesticides Branch  
 Biopesticides and Pollution Prevention Division (7511P)  
 Office of Pesticide Programs

Date:

4/28/2016

3. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 90515-2."
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 01/07/2016

If you have any questions, please contact Menyon Adams of my team by phone at (703) 347-8496 or via email at [adams.menyon@epa.gov](mailto:adams.menyon@epa.gov).

Sincerely,



Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# Synergy Shield Verbenone

**ACTIVE INGREDIENT:**

Verbenone, 4,6,6-trimethyl-bicyclo(3.1.1) hept-3-en-2-one..... 97.0%

**OTHER INGREDIENTS:** ..... 3.0%

**TOTAL:**..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.</p>	

**EPA Reg. No.:** (pending as File Symbol 90515-E)

**EPA Establishment No.:** 90515-CAN-001

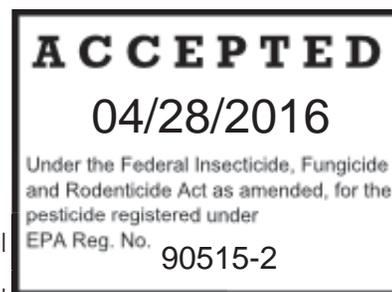
**Manufactured by:** Synergy Semiochemical Corporation  
7061 Merritt Avenue  
Burnaby BC, V5J 4R7 Canada

**Net Contents:**

10 units; (.98 g) (7.84 g) per unit; XX ounces total

50 units; (.98 g) (7.84 g) per unit; XX ounces total

100 units; (.98 g) (7.84 g) per unit; XX ounces total



## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with liquid contents. Do not puncture reservoir. Prior to use, open storage bag in a well ventilated area and allow any accumulated vapors to vent. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark, except under forest canopy. Do not contaminate water when disposing of equipment washwaters or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For application to pine trees only.

**Host Tree Stands:** Stands containing pine trees of any species, including limber, loblolly, lodge pole, pinyon, ponderosa, shortleaf, Virginia, western white, white and whitebark. Use on trees in forests; municipal and shade tree areas; recreational areas such as campgrounds, riparian areas, golf courses, parks and parkways; ornamental and shade tree plantings; suburban areas; and rights of way and other easements.

**Pests:** Verbenone is an antiaggregation pheromone for the mountain pine beetle (*Dendroctonus ponderosae*), the southern pine beetle (*Dendroctonus frontalis*), the western pine beetle (*Dendroctonus brevicomis*) and other bark beetles. Synergy Shield Verbenone deters mass attack in tree stands and protects susceptible trees.

### Application Rate:

#### Placement on trees:

Place Synergy Shield Verbenone on the north face of susceptible trees by stapling individual pouches at 6 to 12 feet high. Attach to tree using flashing on device being careful to **not** puncture the reservoir.

#### Individual trees and area 1 acre or less:

Place 2 to 6 Synergy Shield Verbenone on each tree, depending on risk of attack and size of tree. For large trees over 24 inches diameter, add 1 more Synergy Shield VERBENONE for each additional 6 inches in diameter, 3 feet above the previous Synergy Shield VERBENONE. (.98g)

Place 1 or 2 Synergy Shield Verbenone on each tree, depending on risk of attack and size of tree. For large trees over 24 inches diameter, add 1 more Synergy Shield

VERBENONE for each additional 12 inches in diameter, 3 feet above the previous Synergy Shield VERBENONE. (7.8g)

Perimeter Protection:

Starting at the outside edge, place 1 to 4 Synergy Shield Verbenone on each susceptible tree, depending upon size and spacing of the trees. Continue placing Synergy Shield Verbenone on susceptible trees to a depth of 45-120 feet from the perimeter. (.98g)

Place 1 Synergy Shield Verbenone every 15 feet along the length of the perimeter you are trying to protect. Move in 30 feet and repeat with a second line following the contour of the perimeter. The spacing of devices is important. Synergy Shield Verbenone does **not** have to be on susceptible trees each placement. (7.8 g)

Forested stands over 1 acres (grid placement):

Minimum dose for .98 g units – 120 Synergy Shield Verbenone /acre. At low beetle pressure, place 1 Synergy Shield Verbenone /tree in a grid pattern with 10 foot centers.

Maximum dose for .98 g mg units – 410 Synergy Shield Verbenone /acre. At high beetle pressure, place 1- 2 Synergy Shield Verbenone per susceptible tree.

Minimum dose 7.8 g units – 20 Synergy Shield Verbenone /acre. At low beetle pressure, place 1 Synergy Shield Verbenone /tree in a grid pattern with 46 foot centers.

Maximum dose 7.8 g units – 60 Synergy Shield Verbenone /acre. At high beetle pressure, place 1 Synergy Shield Verbenone /tree in a grid pattern with 20 foot Centers.

**Timing:** Place Synergy Shield Verbenone at least 2 weeks prior to expected flight of the pest. Under normal weather conditions Synergy Shield Verbenone is effective for 70 - 100 days. Use a second treatment as needed.

**Notes:** For optimal results, remove all beetle-infested trees on property before application. Once 40% of the trees in the area are infested, product efficacy may be reduced. May be used with pheromone baited traps to reduce population pressure.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in sealed storage bag below 32°F (0°C) or as cold as possible.

**Pesticide Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable device. Do not reuse or refill this device. Place empty bag in trash.